

# SOUTH AFRICAN JOURNAL OF SCIENCE

Volume 99, 2003

## INDEX

### Index to Parts

No. 1/2 Jan./Feb.	1-96
No. 3/4 Mar./Apr.	97-184, i-xvi
No. 5/6 May/June	185-296
No. 7/8 July/Aug.	297-400
No. 9/10 Sept./Oct.	401-496
No. 11/12 Nov./Dec.	497-592

<b>A</b>	
AARDE, R.J. van see VAN AARDE, R.J.	
ABDALA, F.	95
Acheulean sites. Site information in the early South African Stone Age sites and its influence on the archaeological record	251
ACKERMANN, R.R.	234, 255
ADAMS, V.J., <i>et al.</i>	182
Aerosol profiles by LIDAR. First measurements of tropospheric aerosol profiles above Durban using a LIDAR	168
Aflatoxin B <sub>1</sub> (AFB). Synthesis of simple xanthenes and their inhibition of aflatoxin B <sub>1</sub> production in <i>Aspergillus parasiticus</i>	137
African Institute for Mathematical Sciences (AIMS). Mathematicians aim to secure the next generation	512
AGCM (Atmospheric General Circulation Model). A model investigation of inter-annual winter rainfall variability over southwestern South Africa and associated ocean-atmosphere interaction	75
Agulhas rings. Intrusions of sub-Antarctic water across the Subtropical Convergence south of Africa	173
AIDS research. Mathematical models and the fight against diseases in Africa	305
AIDS. AIDS: lessons from the front line	298
AIMS (African Institute for Mathematical Sciences). Mathematicians aim to secure the next generation	512
Albany Centre of Floristic Endemism (South Africa). Threatened plants of the Albany Centre of Floristic Endemism, South Africa	437
Alcohol metabolism. Effect of oral fructose on ethanol elimination from the bloodstream	47
Alien plants. A proposed prioritization system for the management of invasive alien plants in South Africa	37
Allele frequencies. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
Allele frequencies. Predisposing and protective HLA-DR and -DQ alleles for rheumatoid arthritis in South African mixed-ancestry and Xhosa populations	89
ALLEMANN, J. and HAMMES, P.S.	127
AMBROSE, D.P., <i>et al.</i>	153
<i>Amylostereum</i> . A review of the genus <i>Amylostereum</i> and its association with wood-wasps	70
Animal remains from Likooeng. Animal remains from Likooeng, an open-air river site, and its place in the post-classic Wilton of Lesotho and eastern Free State, South Africa	143
ANSORGE, I.J., <i>et al.</i>	187, 363
Anuran bones, Langebaanweg. Pliocene frogs from Langebaanweg, Western Cape province, South Africa	123
APPLETON, C.C. and MASALA, T.I.	465
Archaean Kaapvaal Craton. Variations in crustal thickness and uppermost mantle structure across the Kaapvaal Craton from <i>Pn</i> and <i>Sn</i> arrivals and receiver functions	447
Archaeological sites. The occurrence of vitrified dung from the Kamdeboo district, southern Karoo, and Den Staat, Limpopo Valley, South Africa	26
<i>Arctiocephalus</i> species. Prince Edward Island Millennium Expedition	407
Argentinian plantations. Coniothyrium stem canker of <i>Eucalyptus</i> , new to Argentina and Vietnam	587
Arid land restoration. Practical measures in arid land restoration after mining – a review for the southern Namib	413
ASHTON, P., <i>et al.</i>	394
<i>Aspergillus parasiticus</i> . Synthesis of simple xanthenes and their inhibition of aflatoxin B <sub>1</sub> production in <i>Aspergillus parasiticus</i>	137
Atmosphere-ocean interaction. A model investigation of inter-annual winter rainfall variability over southwestern South Africa and associated ocean-atmosphere interaction	75
Atmospheric aerosols. First measurements of tropospheric aerosol profiles above Durban using a LIDAR	168
Atmospheric General Circulation Model (AGCM). A model investigation of inter-annual winter rainfall variability over southwestern South Africa and associated ocean-atmosphere interaction	75
AUSTIN, B.	6
<i>Australopithecus</i> partial skeleton. A reconstruction of the Stw 431 <i>Australopithecus</i> pelvis based on newly discovered fragments	225
<i>Australopithecus</i> partial skeleton. The third partial skeleton of a late Pliocene hominin (Stw 431) from Sterkfontein, South Africa	215
<i>Avropavo congensis</i> . A true peafowl in Africa	368
<b>B</b>	
<i>Bacillus</i> species. Susceptibility of food spoilage <i>Bacillus</i> species to chlorine dioxide and other sanitizers	375
BACKWELL, L.R. and D'ERRICO, F.	259
Bacterial pathogens. Prevalence of pathogenic bacteria and rotaviruses in stools of patients presenting with diarrhoea from rural communities in Venda, South Africa	589
BAILEY, G., <i>et al.</i>	143
BALT, C., <i>et al.</i>	187
BANYIKWA, F., <i>et al.</i>	100
Basins with Cretaceous drift infills. Foraminiferally defined biostratigraphic episodes and sedimentation pattern of the Cretaceous drift succession (Early Barremian to Late Maastrichtian) in seven basins on the South African and southern Namibian continental margin	537
BAUMGARTEN, I., <i>et al.</i>	47
Beach sands. Sand transport along the Western Cape coast: gone with the wind?	317
Beans. Bioengineering beans for phosphate-deficient soils in southern Africa	509
Beaufort Group (Karoo Basin, South Africa). Galesaurid cynodonts from the Early Triassic of South Africa: another example of conflicting distribution of characters in non-mammalian cynodonts	95
BEER, W.H.J. de see DE BEER, W.H.J.	
BEER, Z.W. de see DE BEER, Z.W.	
BEERS, D. van see VAN BEERS, D.	
BENCHERIF, H., <i>et al.</i>	163
BENTWICH, Z., <i>et al.</i>	182
BERGER, D.K., <i>et al.</i>	410
BERGER, L.R. and LACRUZ, R.	279
BERGER, L.R., <i>et al.</i>	276, 283
BERMAN, P.A.M., <i>et al.</i>	47
BERNOR, R.L., <i>et al.</i>	453
BESSONG, P.O., <i>et al.</i>	589
BESTER, M.N., <i>et al.</i>	407
BHOORA, R., <i>et al.</i>	410
Bio-psychosocial model. Psychoneuroimmunology: from philosophy, intuition and folklore to a recognized science	332
Biomass conversion. Converting plant biomass to fuels and commodity chemicals in South Africa: a third chapter?	499
Biomass-derived aggregates. The occurrence of vitrified dung from the Kamdeboo district, southern Karoo, and Den Staat, Limpopo Valley, South Africa	26
Biomedical model. Psychoneuroimmunology: from philosophy, intuition and folklore to a recognized science	332
Biotechnology. Assessing public support for biotechnology in South Africa	513
Bird and seal populations, Prince Edward Islands. Prince Edward Island Millennium Expedition	407
BLANKLEY, W.	3
Blood alcohol levels. Effect of oral fructose on ethanol elimination from the bloodstream	47
BLOTTNITZ, H. von see VON BLOTTNITZ, H.	
Blue peafowl, <i>Pavo cristatus</i> . A true peafowl in Africa	368
BODEKER, G.E., <i>et al.</i>	477
BODMER, W., <i>et al.</i>	332
BOELHOUWERS, J.	44
BOER, J. de see DE BOER, J.	
Bone tool material culture. Additional evidence on the early hominid bone tools from Swartkrans with reference to spatial distribution of lithic and organic artefacts	259
Botanical networks. SABONET's support, activities and achievements in South Africa	303
BRAACK, L.E.O., <i>et al.</i>	207
BRAIN, C.K.	235
Brain-gain. South African science in the year 1903 – 100n	59
Brasilia Workshop on Socio-economic Aspects of Emerging Ecosystems (Brasilia, 4–17 May 2003). 'Emerging ecosystems' – a washing-stone for ecologists, economists and sociologists?	404
Breccia deposits. Preliminary report on the first excavations at the new fossil site of Motsetse, Gauteng, South Africa	279
BRENT, A.C.	115
Brenton blue butterfly. The vegetation of the habitat of the Brenton blue butterfly, <i>Orachrysops niobe</i> (Trimen), in the Western Cape, South Africa	201
BRINK, J.S., <i>et al.</i>	283
BRITO, R., <i>et al.</i>	100
Broad-band body waves. The structure of the upper mantle and transition zone beneath southern Africa from broad-band body waves	577
BROODRYK, G.J. and DE BEER, W.H.J.	56
BROZEL, V.S., <i>et al.</i>	375
BRUIJN, H. de see DE BRUIJN, H.	
BUCHANAN, P.C., <i>et al.</i>	153
Burial stones. The Tierkloof painted burial stones	125
BURKE, A.	413, 417
Burned area-mapping methods. Characterizing sub-pixel Landsat ETM+ fire severity on experimental fires in the Kruger National Park, South Africa	357
Burseraceae family. The lipid and fatty acid profiles of the fruit of <i>Canarium schweinfurthii</i>	319
BUSHULA, T., <i>et al.</i>	187
<b>C</b>	
<i>Caenorhabditis elegans</i> . Sydney Brenner, Nobel laureate 2002: his early years at Wits	11
Cameron, West Africa. The lipid and fatty acid profiles of the fruit of <i>Canarium schweinfurthii</i>	319
<i>Canarium schweinfurthii</i> . The lipid and fatty acid profiles of the fruit of <i>Canarium schweinfurthii</i>	319

Cape Floristic Region (CFR). Species-area curves based on relevé data for the Cape Floristic Region	474
Carbon isotope data. Carbon isotope ratios of Sterkfontein fossils indicate a marked shift to open environments c. 1.7 Myr ago	271
Carbon isotope data. Using carbon isotope data of fossil bovid communities for palaeo-environmental reconstruction	273
Cassava crop production. Modelling cassava crop production under semi-arid subtropical conditions in South Africa	321
Catchment2Coast Project. Catchment2Coast: making the link between coastal resource variability and river inputs	299
CD (Chlorine dioxide). Susceptibility of food spoilage <i>Bacillus</i> species to chlorine dioxide and other sanitizers	375
Ce, PdGe <sub>2</sub> . Structure determination of the new rare-earth compound Ce <sub>2</sub> PdGe <sub>2</sub>	419
CECCHI, J. Moggi see MOGGI-CECCHI, J.	
Celestial illusion. The Moon illusion: still a mystery after 24 centuries of investigation	309
Cellulosic biomass. Converting plant biomass to fuels and commodity chemicals in South Africa: a third chapter?	499
CHABWELA, H., <i>et al.</i>	100
CHANG, N., <i>et al.</i>	187
Chauvet Cave. Chauvet: the cave that changed expectations	191
CHERRY, M.	512
Chlorine dioxide (CD). Susceptibility of food spoilage <i>Bacillus</i> species to chlorine dioxide and other sanitizers	375
Chondrites. The Thuatne meteorite fall of 21 July 2002	160
CHUTURGOON, A.A., <i>et al.</i>	137
CILLIERS, P.J., <i>et al.</i>	51
CLARKE, R.J. and KIBILI, J.M.	225
CLARKE, R.J., <i>et al.</i>	286
Climate change. Age interpretation of the Wonderkrater spring sediments and vegetation change in the Savanna Biome, Limpopo Province, South Africa	484
Climatological studies. Inter-annual variability of temperature in the upper troposphere and lower stratosphere at Durban	163
Coastal dunes. Sand transport along the Western Cape coast: gone with the wind?	317
Coastal ecosystem framework. Catchment2Coast: making the link between coastal resource variability and river inputs	299
Coastal fynbos. The vegetation of the habitat of the Brenton blue butterfly, <i>Orachrysops niobe</i> (Trimen), in the Western Cape, South Africa	201
Co-endemic diseases. Association of deworming with reduced eosinophilia: implications for HIV/AIDS and co-endemic diseases	182
COMBRINCK, L., <i>et al.</i>	51, 398
COMPTON, J.S., <i>et al.</i>	317
Concentration-response curves. Receptor simulation and the shape of the concentration-response curve and its congeners	302
Conference abstracts. Southern African Society for Plant Pathology. Congress (41st: 2003: Bloemfontein, South Africa)	i
Congo peacock, <i>Avopavo congensis</i> . A true peafowl in Africa	368
Coniothyrium zuluense. Coniothyrium stem canker of <i>Eucalyptus</i> , new to Argentina and Vietnam	587
Continental margin, southern Africa. Foraminiferal defined biostratigraphic episodes and sedimentation pattern of the Cretaceous drift succession (Early Barremian to Late Maastrichtian) in seven basins on the South African and southern Namibian continental margin	537
COOPER, J., <i>et al.</i>	407
Coopers D deposit, Gauteng, South Africa. Preliminary results of excavations at the newly investigated Coopers D deposit, Gauteng, South Africa	276
Copper cycles, Cape Town. The magnitude and spatial distribution of in-use copper stocks in Cape Town, South Africa	61
CORDERO-OTERO, R., <i>et al.</i>	509
COUTINHO, T.A., <i>et al.</i>	70
COWLING, R.M., <i>et al.</i>	474
Cradle of Humankind World Heritage Site. Current issues in human origins research in South Africa	283
Cradle of Humankind World Heritage Site. Gladysvale: fossils, strata and GIS analysis	234
Craters. Impact cratering: a young discipline coming of age	307
CRAWFORD, R. and VAN SITTER, L.	13
CRAWFORD, R.J.M., <i>et al.</i>	407
CREEMERS, P., <i>et al.</i>	81
CREEMERS, P.C., <i>et al.</i>	89
Cretaceous drift period. Southern Africa during the Cretaceous	508
Cretaceous drift succession. Foraminiferal defined biostratigraphic episodes and sedimentation pattern of the Cretaceous drift succession (Early Barremian to Late Maastrichtian) in seven basins on the South African and southern Namibian continental margin	537
CREWE, R.M., <i>et al.</i>	207
CRIDLAND, J.S. and WITTEN, G.	302
<i>Crotalaria</i> species. What levels of potentially toxic seed should be allowed in grains in South Africa. 1. Background and pyrrolizidine alkaloid-containing plants	337
Crustal thickness. Variations in crustal thickness and uppermost mantle structure across the Kaapvaal Craton from Pn and Sn arrivals and receiver functions	447
Cultural modernity. How some archaeologists recognize culturally modern behaviour	247
<b>D</b>	
D'ERRICO, F. and BACKWELL, L.R.	259
DAVIDSON, B.C. and NKEH, B.N.	319
DAVIS, G., <i>et al.</i>	224
DE BEER, W.H.J. and BROODRYK, G.J.	56
DE BEER, Z.W., <i>et al.</i>	34
DE BOER, J., <i>et al.</i>	499
DE BRUIJN, H., <i>et al.</i>	160
DE KONING, A.J., <i>et al.</i>	224, 521
DE RUITER, D.J., <i>et al.</i>	276
DE VILLIERS, M.M. and MALAN, S.F.	289
Decalcified breccias. Preliminary report on the first excavations at the new fossil site of Motsetse, Gauteng, South Africa	279
Decalcified breccias. Preliminary results of excavations at the newly investigated Coopers D deposit, Gauteng, South Africa	276
DEIMAC (Dynamics of Eddy Impacts on Marion's Ecosystem Study). Studying the impact of ocean eddies on the ecosystem of the Prince Edward Islands: DEIMAC II	187
Delphi decision-making technique. A proposed prioritization system for the management of invasive alien plants in South Africa	37
Den Staat, Limpopo Valley (South Africa). The occurrence of vitrified dung from the Kamdebou district, southern Karoo, and Den Staat, Limpopo Valley, South Africa	26
Dental specimens, Sterkfontein. The elusive 'second species' in Sterkfontein Member 4: the dental metrical evidence	268
Deworming programmes. Association of deworming with reduced eosinophilia: implications for HIV/AIDS and co-endemic diseases	182
DHANSAY, M.A., <i>et al.</i>	182
DIAB, R.D., <i>et al.</i>	163, 168
Diamond formation. Do diamond-inclusion ages date only the protolith, not the diamond formation?	227
Diarrhoea, rural communities, Venda, South Africa. Prevalence of pathogenic bacteria and rotaviruses in stools of patients presenting with diarrhoea from rural communities in Venda, South Africa	589
Diffuse solar radiation. Relationship between diffuse and global solar radiation in southern Africa	360
DIJK, D.E. van see VAN DIJK, D.E.	
<i>Dinofelis</i> species. Preliminary report on the first excavations at the new fossil site of Motsetse, Gauteng, South Africa	279
Diseases in Africa. Mathematical models and the fight against diseases in Africa	305
Diseases of exotic trees. Diseases of exotic <i>Eucalyptus</i> and <i>Pinus</i> species in Ethiopian plantations	29
DNA helix. Discovering the DNA double helix and the secret of life	460
DOLD, A.P. and VICTOR, J.E.	437
DREYER, J.J.B., <i>et al.</i>	26
Drug delivery technologies. Developments in drug delivery technologies: molecular and crystal design, cellular response and targeted and site-specific delivery	289
Dual-frequency global positioning system receivers. The South African network of dual-frequency global positioning system satellite receiver base stations: a national asset with many applications and research opportunities	51
DUBE, R., <i>et al.</i>	394
Durban, South Africa. Inter-annual variability of temperature in the upper troposphere and lower stratosphere at Durban	163
DURRHEIM, D.N., <i>et al.</i>	21
DUTTON, M.F., <i>et al.</i>	137
Dynamics of Eddy Impacts on Marion's Ecosystem Study (DEIMAC). Studying the impact of ocean eddies on the ecosystem of the Prince Edward Islands: DEIMAC II	187
<b>E</b>	
Earlier Stone Age (ESA). Site information in the early South African Stone Age sites and its influence on the archaeological record	251
Early Acheulean artefacts. Preliminary results of excavations at Lincoln Cave, Sterkfontein, South Africa	286
Early Barremian to late Maastrichtian period. Foraminiferal defined biostratigraphic episodes and sedimentation pattern of the Cretaceous drift succession (Early Barremian to Late Maastrichtian) in seven basins on the South African and southern Namibian continental margin	537
Early Triassic <i>Lystrosaurus</i> Assemblage Zone. Galesaurid cynodonts from the Early Triassic of South Africa: another example of conflicting distribution of characters in non-mammalian cynodonts	95
Earth structure studies. Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa	389
Earthquake seismograms. The structure of the upper mantle and transition zone beneath southern Africa from broad-band body waves	577
Earthquake seismology. Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa	389
Eccles Formation. Preliminary report on the first excavations at the new fossil site of Motsetse, Gauteng, South Africa	279
ECM1 gene. The genetic defect identified and a founder effect confirmed in Namaqualand families with lipid proteinosis	9
Ecological restoration. Practical measures in arid land restoration after mining – a review for the southern Namib	413
Ecological restoration. Towards implementing ecological restoration in Namibia	417
Ecosystem, Prince Edward Islands. Studying the impact of ocean eddies on the ecosystem of the Prince Edward Islands: DEIMAC II	187
Ecosystems. 'Emerging ecosystems' – a washing-stone for ecologists, economists and sociologists?	404
Edible herbs. The prevalence of use and value of wild edible herbs in South Africa	23
EDWARD, V.A., <i>et al.</i>	315
El-Niño/Southern Oscillation (ENSO). Inter-annual variability of temperature in the upper troposphere and lower stratosphere at Durban	163
ELOFF, J.N., <i>et al.</i>	337
ELTOSA (Environmental Long-Term Observatories Network of Southern Africa). Developing the Environmental Long-Term Observatories Network of Southern Africa (ELTOSA)	100
ENGELBRECHT, J. and HARDING, A.	17
ENSO (El-Niño/Southern Oscillation). Inter-annual variability of temperature in the upper troposphere and lower stratosphere at Durban	163
<i>Enterobius vermicularis</i> . True prevalence of pinworm ( <i>Enterobius vermicularis</i> ) infection among children in Qwa-Qwa, South Africa	465
Environmental impact of economic activities. A proposed lifecycle impact assessment framework for South Africa from available environmental data	115
Environmental Long-Term Observatories Network of Southern Africa (ELTOSA). Developing the Environmental Long-Term Observatories Network of Southern Africa (ELTOSA)	100
Environmental shifts. Carbon isotope ratios of Sterkfontein fossils indicate a marked shift to open environments c. 1.7 Myr ago	271
EON (Environmental Observations Networks). Developing the Environmental Long-Term Observatories Network of Southern Africa (ELTOSA)	100
Eosinophilia. Association of deworming with reduced eosinophilia: implications for HIV/AIDS and co-endemic diseases	182

Epidemiological modelling. Mathematical models and the fight against diseases in Africa	305	GIS (Geographic Information System). The magnitude and spatial distribution of in-use copper stocks in Cape Town, South Africa	61
ERRICO, F. D' see D'ERRICO, F.		Gladysvale External Deposits (GVED). Gladysvale: fossils, strata and GIS analysis	283
ESA (Earlier Stone Age). Site information in the early South African Stone Age sites and its influence on the archaeological record	251	GLASER, J., <i>et al.</i>	89
Ethanol metabolism. Effect of oral fructose on ethanol elimination from the bloodstream	47	Global climate change. Carbon isotope ratios of Sterkfontein fossils indicate a marked shift to open environments c. 1.7 Myr ago	271
Ethical approaches to the study of human remains. Managing collections of human remains in South African museums and universities: ethical policy-making and scientific value	238	Global climate change. Studying the impact of ocean eddies on the ecosystem of the Prince Edward Islands: DEIMAC II	187
Ethiopian plantations. Diseases of exotic <i>Eucalyptus</i> and <i>Pinus</i> species in Ethiopian plantations	29	Global Positioning System (GPS). The South African network of dual-frequency global positioning system satellite receiver base stations: a national asset with many applications and research opportunities	51
<i>Eucalyptus</i> diseases. Coniothorium stem canker of <i>Eucalyptus</i> , new to Argentina and Vietnam	587	Global solar radiation. Relationship between diffuse and global solar radiation in southern Africa	360
<i>Eucalyptus grandis</i> . PCR cloning by genome walking of a complete polygalacturonase-inhibiting protein gene from <i>Eucalyptus grandis</i>	410	GÖRGES, A., <i>et al.</i>	394
<i>Eucalyptus PGIP</i> gene. PCR cloning by genome walking of a complete polygalacturonase-inhibiting protein gene from <i>Eucalyptus grandis</i>	410	Gough Island. Sea-surface temperatures at the sub-Antarctic islands Marion and Gough during the past 50 years	263
European Union's Sixth Framework Programme (FP6). Launch of the European Union's Sixth Framework Programme for Research: opportunities for South Africa	3	GOUWS, D., <i>et al.</i>	51
<i>Eurygnathohippus cf. boardi</i> . Systematics and dietary evaluation of a fossil equid from South Africa	453	GOUWS, E., <i>et al.</i>	305, 371
Experimental fires. Characterizing sub-pixel Landsat ETM+ fire severity on experimental fires in the Kruger National Park, South Africa	357	GOVERE, J.M., <i>et al.</i>	21
Extra-cellular matrix protein 1 gene. The genetic defect identified and a founder effect confirmed in Namaqualand families with lipid proteinosis	9	GPS (Global Positioning System). The South African network of dual-frequency global positioning system satellite receiver base stations: a national asset with many applications and research opportunities	51
Extraterrestrial solar radiation. Relationship between diffuse and global solar radiation in southern Africa	360	GRACE, O.M. and VAN STADEN, J.	526
<b>F</b>		GRAEDEL, T.E. and VAN BEERS, D.	61
FAIRBANKS, D.H.K., <i>et al.</i>	37	GRAY, V.M.	321
Feral mice. Advances in vertebrate pest control: implications for the control of feral house mice on Marion Island	130	GREEN, E., <i>et al.</i>	589
Fermented milk. Microbial flora associated with South African household kefir	92	Gregory Rift Valley, Kenya. A first limnological description of Lake Kichirithi, Kenya: a possible reference site for the freshwater lakes of the Gregory Rift Valley	494
FEY, M.V. and MILLS, A.J.	429	GREYLING, M.D., <i>et al.</i>	407
FILLIS, C.S. and LUTJEHARMS, J.R.E.	173	Ground- and surface-water interactions. South African research in the hydrological sciences: 1999–2002	394
FINCHAM, J.E., <i>et al.</i>	182	Guano production. Historical reconstruction of guano production on the Namibian islands 1843–1895	13
Fire severity mapping. Characterizing sub-pixel Landsat ETM+ fire severity on experimental fires in the Kruger National Park, South Africa	357	GULEKANA, K., <i>et al.</i>	187
Fish species. The fat content and fatty acid composition of fourteen South Atlantic fish species	224	GVED (Gladysvale External Deposits). Gladysvale: fossils, strata and GIS analysis	283
Floriculture crop, southern Africa. A horticultural history of <i>Lachenalia</i> (Hyacinthaceae)	526	<b>H</b>	
FOLEY, P. Hayes see HAYES-FOLEY, P.		HadAM3 model. A model investigation of inter-annual winter rainfall variability over southwestern South Africa and associated ocean-atmosphere interaction	75
Food spoilage bacteria. Susceptibility of food spoilage <i>Bacillus</i> species to chlorine dioxide and other sanitizers	375	HAHNE, F., <i>et al.</i>	305
Foraminifera-based biostratigraphy. Foraminiferaally defined biostratigraphic episodes and sedimentation pattern of the Cretaceous drift succession (Early Barremian to Late Maastriichtian) in seven basins on the South African and southern Namibian continental margin	537	HAMMES, P.S. and ALLEMANN, J.	127
Forestry industry. The occurrence of <i>Ophiostoma piliferum</i> -like fungi on pulpwood chips and other wood sources in South Africa	34	HANCOX, J., <i>et al.</i>	276
Fossil birds. A true peafowl in Africa	368	HANCOX, P.J., <i>et al.</i>	283
Fossil bovids. Using carbon isotope data of fossil bovid communities for palaeoenvironmental reconstruction	273	Haplotype frequencies. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
Fossil heritage awareness. Heritage awareness, museums and hominid casts	240	HARDING, A. and ENGELBRECHT, J.	17
Fossil hipparionines. Systematics and dietary evaluation of a fossil equid from South Africa	453	HARGEY, N., <i>et al.</i>	187
Fossil hominid dental specimens. The elusive 'second species' in Sterkfontein Member 4: the dental metrical evidence	268	HARPER, D., <i>et al.</i>	494
Fossil hominid remains. Managing collections of human remains in South African museums and universities: ethical policy-making and scientific value	238	HAWKE, R.M.	311
Fossil relationships. Using extant morphological variation to understand fossil relationships: a cautionary tale	255	HAYES-FOLEY, P., <i>et al.</i>	187
Fossiliferous deposits. Gladysvale: fossils, strata and GIS analysis	283	Head lice. The prevalence of pediculosis in rural South African schoolchildren	21
FP6 launch. Launch of the European Union's Sixth Framework Programme for Research: opportunities for South Africa	3	Head louse infestations. The prevalence of pediculosis in rural South African schoolchildren	21
FRANCESCHINI, G., <i>et al.</i>	317	HENDERSON, L., <i>et al.</i>	37
FRANZ-ODENDAAL, T.M., <i>et al.</i>	453	HENSCHEL, J., <i>et al.</i>	100
Free State (South Africa). Perspectives on the geology of an open-air Middle Stone Age site, eastern Free State, South Africa	422	Herbs. The prevalence of use and value of wild edible herbs in South Africa	23
FREIMAN, M.T., <i>et al.</i>	168	Heritage agencies. South African archaeology and palaeontology in legislative quagmire	237
Freshwater lakes. A first limnological description of Lake Kichirithi, Kenya: a possible reference site for the freshwater lakes of the Gregory Rift Valley	494	Heritage awareness. Heritage awareness, museums and hominid casts	240
Fructose effect. Effect of oral fructose on ethanol elimination from the bloodstream	47	HIGGINS, S.I., <i>et al.</i>	37
Fungal symbionts. A review of the genus <i>Amylostereum</i> and its association with wood-wasps	70	High-resolution X-ray diffraction (XRD). Structure determination of the new rare-earth compound Ce <sub>2</sub> PdGe <sub>3</sub>	419
Fungus-growing termites. Estimates of food consumption by the fungus-growing termite <i>Macrotermes natalensis</i> in a South African savanna-woodland	207	Hipparionines. Systematics and dietary evaluation of a fossil equid from South Africa	453
FURNO, L., <i>et al.</i>	187	HIV transmission. Vaginal douching and vaginal substance use among sex workers in KwaZulu-Natal, South Africa	371
<b>G</b>		HIV/AIDS, treatment of. Association of deworming with reduced eosinophilia: implications for HIV/AIDS and co-endemic diseases	182
Galesauridae. Galesaurid cynodonts from the Early Triassic of South Africa: another example of conflicting distribution of characters in non-mammalian cynodonts	95	HIV/AIDS. AIDS: lessons from the front line	298
GEBEYEHU, S. and WINGFIELD, M.J.	531	HLA allele distributions. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
Genetic disorders. The genetic defect identified and a founder effect confirmed in Namaqualand families with lipid proteinosis	9	HLA antigen frequencies. Predisposing and protective HLA-DR and -DQ alleles for rheumatoid arthritis in South African mixed-ancestry and Xhosa populations	89
GENGAN, R.M., <i>et al.</i>	137	HOARE, D., <i>et al.</i>	201
Geodesy research. South African research in geodesy: 1999–2003	398	HOFFMANN, J.H., <i>et al.</i>	37
Geographic Information System (GIS). Gladysvale: fossils, strata and GIS analysis	283	HOLMGREN, K., <i>et al.</i>	484
Geographic Information System (GIS). The magnitude and spatial distribution of in-use copper stocks in Cape Town, South Africa	61	HOLNESS, S., <i>et al.</i>	177
Geomagnetic secular variation. Southern Africa's geomagnetic secular variation	584	HOLY, A. von see VON HOLY, A.	
GETZ, W.M., <i>et al.</i>	305	Hominid bone tools. Additional evidence on the early hominid bone tools from Swartkrans with reference to spatial distribution of lithic and organic artefacts	259
GEZAHGNE, A., <i>et al.</i>	29, 587	Hominid casts. Heritage awareness, museums and hominid casts	240
Giant dassie. Giant dassie (Hyacoidea, Mammalia) from the Middle Miocene of South Africa	366	Hominid crania. Comparison of hominid fossils attributed to <i>Australopithecus</i> and <i>Homo</i>	241
GIS (Geographic Information System). Gladysvale: fossils, strata and GIS analysis	283	Hominid fossil relationship. Using extant morphological variation to understand fossil relationships: a cautionary tale	255
		Hominid fossils. Comparison of hominid fossils attributed to <i>Australopithecus</i> and <i>Homo</i>	241
		Hominid taxonomy. Comparison of hominid fossils attributed to <i>Australopithecus</i> and <i>Homo</i>	241
		Hondeklip Baai, Namaqualand (South Africa). Giant dassie (Hyacoidea, Mammalia) from the Middle Miocene of South Africa	366
		House mice. Advances in vertebrate pest control: implications for the control of feral house mice on Marion Island	130
		HUFFMAN, T.N., <i>et al.</i>	26
		HUGHES, A.R., <i>et al.</i>	215
		HUGHES, D., <i>et al.</i>	394



Human leukocyte antigen system. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
Human origins research, South Africa. A perspective on the PAST	235
Human origins research, South Africa. Additional evidence on the early hominid bone tools from Swartkrans with reference to spatial distribution of lithic and organic artefacts	259
Human origins research, South Africa. Carbon isotope ratios of Sterkfontein fossils indicate a marked shift to open environments c. 1.7 Myr ago	271
Human origins research, South Africa. Comparison of hominid fossils attributed to <i>Australopithecus</i> and <i>Homo</i>	241
Human origins research, South Africa. Current issues in human origins research in South Africa	234
Human origins research, South Africa. Gladysvale: fossils, strata and GIS analysis	283
Human origins research, South Africa. Heritage awareness, museums and hominid casts	240
Human origins research, South Africa. How some archaeologists recognize culturally modern behaviour	247
Human origins research, South Africa. Managing collections of human remains in South African museums and universities: ethical policy-making and scientific value	238
Human origins research, South Africa. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa	243
Human origins research, South Africa. Preliminary report on the first excavations at the new fossil site of Motsepe, Gauteng, South Africa	279
Human origins research, South Africa. Preliminary results of excavations at the newly investigated Coopers D deposit, Gauteng, South Africa	276
Human origins research, South Africa. Preliminary results of excavations at Lincoln Cave, Sterkfontein, South Africa	286
Human origins research, South Africa. Site information in the early South African Stone Age sites and its influence on the archaeological record	251
Human origins research, South Africa. South African archaeology and palaeontology in legislative quagmire	237
Human origins research, South Africa. The elusive 'second species' in Sterkfontein Member 4: the dental metrical evidence	268
Human origins research, South Africa. Using carbon isotope data of fossil bovid communities for palaeoenvironmental reconstruction	273
Human origins research, South Africa. Using extant morphological variation to understand fossil relationships: a cautionary tale	255
Hydrological sciences. South African research in the hydrological sciences: 1999–2002	394
Hydrology and the ecological reserve. South African research in the hydrological sciences: 1999–2002	394
Hyracoidae, Mammalia. Giant dassie (Hyracoidae, Mammalia) from the Middle Miocene of South Africa	366
IAG (International Association of Geodesy). South African research in geodesy: 1999–2003	398
IAVCEI (International Association of Volcanology and Chemistry of the Earth's Interior). Review of South African research on volcanic and related rocks and mantle-derived materials: 1999–2002	381
IGUMBOR, E.O., <i>et al.</i>	589
Immune system. Psychoneuroimmunology: from philosophy, intuition and folklore to a recognized science	332
Impact cratering research. Impact cratering: a young discipline coming of age	307
<i>Indigolera erecta</i> . The vegetation of the habitat of the Brenton blue butterfly, <i>Orachrysops niobe</i> (Trimen), in the Western Cape, South Africa	201
Inter-annual winter rainfall. A model investigation of inter-annual winter rainfall variability over southwestern South Africa and associated ocean–atmosphere interaction	75
Intermetallic compounds. Structure determination of the new rare-earth compound Ce <sub>2</sub> PdGe <sub>3</sub>	419
International Association of Geodesy (IAG). South African research in geodesy: 1999–2003	398
International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI). Review of South African research on volcanic and related rocks and mantle-derived materials: 1999–2002	381
International Union of Geodesy and Geophysics (2003: Sapporo, Japan) <i>see</i> IUGG reports	
Intestinal parasites. True prevalence of pinworm ( <i>Enterobius vermiculans</i> ) infection among children in Qwa-Qwa, South Africa	465
Invasive alien plants. A proposed prioritization system for the management of invasive alien plants in South Africa	37
IUCN Red List. Threatened plants of the Albany Centre of Floristic Endemism, South Africa	437
IUGG reports. Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa	389
IUGG reports. Review of South African research on volcanic and related rocks and mantle-derived materials: 1999–2002	381
IUGG reports. South African research in geodesy: 1999–2003	398
IUGG reports. South African research in the hydrological sciences: 1999–2002	394
J	
JAARSVELD, A. <i>van see</i> VAN JAARSVELD, A.	
JACKSON, T.P. and VAN AARDE, R.J.	130
JACOBS, E., <i>et al.</i>	315
JACOBSON, L., <i>et al.</i>	26
JAGADHEESHA, D., <i>et al.</i>	75
JANSEN VAN RIJSEN, F.W., <i>et al.</i>	337
JENKINS, T. and RAMSEY, M.	9
JEWITT, G., <i>et al.</i>	394
JOHNSON, S.D. and STEINER, K.E.	345
JOUBERT, J.P.J., <i>et al.</i>	337
K	
Kaapvaal broad-band seismic network. Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa	389
Kaapvaal Craton (Africa, Southern). Variations in crustal thickness and uppermost mantle structure across the Kaapvaal Craton from <i>Pn</i> and <i>Sn</i> arrivals and receiver functions	447
KAHLER, S., <i>et al.</i>	187
KAISER, T.M., <i>et al.</i>	453
Kamdeboo district, southern Karoo (South Africa). The occurrence of vitrified dung from the Kamdeboo district, southern Karoo, and Den Staat, Limpopo Valley, South Africa	26
Kefir. Microbial flora associated with South African household kefir	92
Kei River mouth (Eastern Cape, South Africa). Living marine stromatolites at Kei River mouth	200
KENT, S. and SCHOLTZ, N.	422
Kepler Problem. Complete symmetry groups, the Kepler Problem and generalizations	209
KETELAAR, R., <i>et al.</i>	201
KGASWANE, E.M., <i>et al.</i>	447, 577
KIBIJI, J.M. and CLARKE, R.J.	225
KIKKO, A.J., <i>et al.</i>	389
Kimberlite pipes. Do diamond-inclusion ages date only the protolith, not the diamond formation?	227
KONING, A.J. <i>de see</i> DE KONING, A.J.	
KOPP, P.E., <i>et al.</i>	305
KOTZE, P.B.	584
Kruger National Park (South Africa). Characterizing sub-pixel Landsat ETM+ fire severity on experimental fires in the Kruger National Park, South Africa	357
KUMAN, K.	251
KUMAN, K.A., <i>et al.</i>	286
KWADIBIA, M.T.O., <i>et al.</i>	447, 577
L	
Laboratory Information Management Systems (LIMS). Improving quality control in the water chemistry laboratory by implementing a productive information management system	56
Laboratory quality management systems. Improving quality control in the water chemistry laboratory by implementing a productive information management system	56
<i>Lachenalia</i> (Hyacinthaceae). A horticultural history of <i>Lachenalia</i> (Hyacinthaceae)	526
LACRUZ, R. and BERGER, L.R.	279
LACRUZ, R., <i>et al.</i>	283
LAING, M.	109
Lake Kichirithi (Kenya). A first limnological description of Lake Kichirithi, Kenya: a possible reference site for the freshwater lakes of the Gregory Rift Valley	494
LANDMANN, T.	357
Landsat ETM+. Characterizing sub-pixel Landsat ETM+ fire severity on experimental fires in the Kruger National Park, South Africa	357
Landscape development. Quaternary slope development in the Lesotho highlands: review and alternative model	44
Langebaanweg (South Africa). Systematics and dietary evaluation of a fossil equid from South Africa	453
Langebaanweg (Western Cape, South Africa). Pliocene frogs from Langebaanweg, Western Cape Province, South Africa	123
Late Holocene post-classic Wilton. Animal remains from Likoaeng, an open-air river site, and its place in the post-classic Wilton of Lesotho and eastern Free State, South Africa	143
Late Miocene–Early Pliocene fossils. Pliocene frogs from Langebaanweg, Western Cape Province, South Africa	123
Late Quaternary. Age interpretation of the Wonderkrater spring sediments and vegetation change in the Savanna Biome, Limpopo Province, South Africa	484
Late Stone Age (LSA). Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa	243
Later Stone Age burials. The Tierkloof painted burial stones	125
Laughing gas. Some thoughts on the structure and behaviour of N <sub>2</sub> O laughing gas	109
LCIA (Lifecycle Impact Assessment). A proposed lifecycle impact assessment framework for South Africa from available environmental data	115
LEMAITRE, D.C., <i>et al.</i>	37
LEACH, P.G.L.	209
Leaf blotch. Diseases of exotic <i>Eucalyptus</i> and <i>Pinus</i> species in Ethiopian plantations	29
LEE-THORP, J.A. and LUYT, C.J.	271
LEE-THORP, J.A. and SPONHEIMER, M.	273
Legumes. Bioengineering beans for phosphate-deficient soils in southern Africa	509
Lesotho highlands. Quaternary slope development in the Lesotho highlands: review and alternative model	44
LEWIS-WILLIAMS, J.D.	191
LIDAR measurements. First measurements of tropospheric aerosol profiles above Durban using a LIDAR	168
Lifecycle Impact Assessment (LCIA). A proposed lifecycle impact assessment framework for South Africa from available environmental data	115
Light Detection and Ranging (LIDAR) system. First measurements of tropospheric aerosol profiles above Durban using a LIDAR	168
Likoaeng (Lesotho). Animal remains from Likoaeng, an open-air river site, and its place in the post-classic Wilton of Lesotho and eastern Free State, South Africa	143
Limpopo (South Africa). Age interpretation of the Wonderkrater spring sediments and vegetation change in the Savanna Biome, Limpopo Province, South Africa	484
Limpopo (South Africa). Consumption and direct-use values of savanna bioresources used by rural households in Mamelja, a semi-arid area of Limpopo Province, South Africa	467
LIMS (Laboratory Information Management Systems). Improving quality control in the water chemistry laboratory by implementing a productive information management system	56
Lincoln Cave, Sterkfontein. Preliminary results of excavations at Lincoln Cave, Sterkfontein, South Africa	286
LINDSAY, D., <i>et al.</i>	375
LINZER, L.M., <i>et al.</i>	389
Lipoid proteinosis (LP). The genetic defect identified and a founder effect confirmed in Namaqualand families with lipoid proteinosis	9
Lithic artefacts. Additional evidence on the early hominid bone tools from Swartkrans with reference to spatial distribution of lithic and organic artefacts	259
Little Caledon River region (Free State, South Africa). Perspectives on the geology of an open-air Middle Stone Age site, eastern Free State, South Africa	422

Livingstone potato. Chemical composition of South African <i>Plectranthus esculentus</i> tubers	127	Mine seismology. Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa	389
Lizard telemetry. Lizard telemetry: an exercise in passive monitoring, skulduggery and embargoes	6	Mineralogical classification. The Thuthe meteorite of 21 July 2002, Lesotho: mapping the strewn field and initial mineralogical classification	153
LOMBARD, A., <i>et al.</i>	160	Misconduct in science. The good, the bad, and the ugly	402
LOMBARD, C.J., <i>et al.</i>	182	MITCHELL, P., <i>et al.</i>	143
Long-term Ecological Research (LTER). Developing the Environmental Long-Term Observatories Network of Southern Africa (ELTOSA)	100	Mixed-ancestry populations. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
LOOCK, J.C., <i>et al.</i>	26	Mixed-ancestry populations. Predisposing and protective HLA-DR and -DQ alleles for rheumatoid arthritis in South African mixed-ancestry and Xhosa populations	89
LORETAN, T., <i>et al.</i>	92	MKATSHWA, S., <i>et al.</i>	187
LOUCHART, A.	368	Modelling cassava crop production. Modelling cassava crop production under semi-arid subtropical conditions in South Africa	321
LP (Lipoid proteinosis). The genetic defect identified and a founder effect confirmed in Namaqualand families with lipoid proteinosis	9	Modern behaviour. How some archaeologists recognize culturally modern behaviour	247
LSA (Late Stone Age). Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa	243	Modern behaviour. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa	243
LUBKE, R.A., <i>et al.</i>	201	MOGGI-CECCHI, J.	268
LUTJEHARMS, J.R.E. and FILLIS, C.S.	173	MONTEIRO, P. and MATTHEWS, S.	299
LUTJEHARMS, J.R.E. and ROUAULT, M.	489	Moon illusion. The Moon illusion: still a mystery after 24 centuries of investigation	309
LUTJEHARMS, J.R.E., <i>et al.</i>	187, 363	MOORGAWA, A., <i>et al.</i>	163, 168
LUYT, C.J. and LEE-THORP, J.A.	271	MORAR, N.S., <i>et al.</i>	371
LYND, L.R., <i>et al.</i>	499	Morphological variation. Using extant morphological variation to understand fossil relationships: a cautionary tale	255
<b>M</b>		MOSHE, D., <i>et al.</i>	467
MACHO, G.A., <i>et al.</i>	215	MOSTERT, J.F., <i>et al.</i>	92
Macromolecular drug delivery. Developments in drug delivery technologies: molecular and crystal design, cellular response and targeted and site-specific delivery	289	MOSTERT, P., <i>et al.</i>	305
<i>Macrotermes natalensis</i> . Estimates of food consumption by the fungus-growing termite <i>Macrotermes natalensis</i> in a South African savanna-woodland	207	Motsetse (Gauteng, South Africa). Preliminary report on the first excavations at the new fossil site of Motsetse, Gauteng, South Africa	279
Magnetic observatories. Southern Africa's geomagnetic secular variation	584	MSA (Middle Stone Age). How some archaeologists recognize culturally modern behaviour	247
MAITRE, D.C. <i>le see</i> LE MAITRE, D.C.		MSA (Middle Stone Age). Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa	243
Makapansgat fossil specimens. Using carbon isotope data of fossil bovid communities for palaeoenvironmental reconstruction	273	MSA (Middle Stone Age). Perspectives on the geology of an open-air Middle Stone Age site, eastern Free State, South Africa	422
MALAN, S.F. and DE VILLIERS, M.M.	289	MSA shell middens. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa	243
Mametja Traditional Authority (Limpopo, South Africa). Consumption and direct-use values of savanna bio-resources used by rural households in Mametja, a semi-arid area of Limpopo Province, South Africa	467	MUCINA, L., <i>et al.</i>	474
MANCHESTER, K.	10, 460	MULHOLLAND, D.A., <i>et al.</i>	137
Manihot <i>esculenta</i> . Modelling cassava crop production under semi-arid subtropical conditions in South Africa	321	MULLER, C., <i>et al.</i>	305
MANSVELT, E.P.G., <i>et al.</i>	182	MUSIL, C.F., <i>et al.</i>	477
Mantle-derived materials research. Review of South African research on volcanic and related rocks and mantle-derived materials: 1999–2002	381	<b>N</b>	
Maputo Bay (Mozambique). Catchment2Coast: making the link between coastal resource variability and river inputs	299	Namaqualand families. The genetic defect identified and a founder effect confirmed in Namaqualand families with lipoid proteinosis	9
Marine phospholipids. Phospholipids of marine origins: a review in southern Africa 1963–2003	521	Namib desert. Lizard telemetry: an exercise in passive monitoring, skulduggery and embargoes	6
Marine pollution research. Marine pollution research in South Africa: a status report	349	Namib, southern. Practical measures in arid land restoration after mining – a review for the southern Namib	413
Marion Island. Advances in vertebrate pest control: implications for the control of feral house mice on Marion Island	130	Namibia. Towards implementing ecological restoration in Namibia	417
Marion Island. Observations on rapid mass movement and screes on sub-Antarctic Marion Island	177	Namibian guano production data. Historical reconstruction of guano production on the Namibian islands 1843–1895	13
Marion Island. Sea-surface temperatures at the sub-Antarctic islands Marion and Gough during the past 50 years	263	Namibian islands. Historical reconstruction of guano production on the Namibian islands 1843–1895	13
MARKUS, M.B., <i>et al.</i>	182	Namibian Khoi and San. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
MARSH, J.S.	381	National Botanical Institute (NBI). SABONET's support, activities and achievements in South Africa	303
MARSHALL, D.J. and O'DONOGHUE, S.	349	National Heritage Act. South African archaeology and palaeontology in legislative quagmire	237
MASALA, T.I. and APPLETON, C.C.	465	National Water Act of 1998. South African research in the hydrological sciences: 1999–2002	394
Mathematical modelling. Mathematical models and the fight against diseases in Africa	305	NAUDE, T.W., <i>et al.</i>	337
Mathematics education. Mathematicians aim to secure the next generation	512	NBI (National Botanical Institute). SABONET's support, activities and achievements in South Africa	303
Mathematics establishments. Is mathematics running out of numbers?	17	NEL, W., <i>et al.</i>	177
MATTHEWS, S. and MONTEIRO, P.	299	NETSHILUVHI, T., <i>et al.</i>	467
McMILLAN, I.K.	508, 537	Neuroendocrine-behavioural functions. Psychoneuroimmunology: from philosophy, intuition and folklore to a recognized science	332
MEIKLEJOHN, K.I., <i>et al.</i>	177	NGTs (Nominal Group Techniques). A proposed prioritization system for the management of invasive alien plants in South Africa	37
MELICE, J.L., <i>et al.</i>	363	NGUURI, T.K., <i>et al.</i>	447
Membrane Bioreactor (MBR). Degradation of synthetic xylan effluent using a membrane bioreactor	315	Nitrous oxide. Some thoughts on the structure and behaviour of N <sub>2</sub> O laughing gas	109
<i>Merolus anchietae</i> . Lizard telemetry: an exercise in passive monitoring, skulduggery and embargoes	6	NKEH, B.N. and DAVIDSON, B.C.	319
MERRY, C.L., <i>et al.</i>	398	Nobel Prize for Physiology or Medicine, 2002. Nobel laureate at last	10
MERWE, G. van der <i>see</i> VAN DER MERWE, G.		Nobel Prize for Physiology or Medicine, 2002. Sydney Brenner, Nobel laureate 2002: his early years at Wits	11
MERWE, N.J. van der <i>see</i> VAN DER MERWE, N.J.		Nominal Group Techniques (NGTs). A proposed prioritization system for the management of invasive alien plants in South Africa	37
Meteorites. The Thuthe meteorite fall of 21 July 2002	160	Non-mammalian cynodonts. Galesaurid cynodonts from the Early Triassic of South Africa: another example of conflicting distribution of characters in non-mammalian cynodonts	95
Meteorites. The Thuthe meteorite of 21 July 2002, Lesotho: mapping the strewn field and initial mineralogical classification	153	<b>O</b>	
MEYER, M.A., <i>et al.</i>	407	O'DONOGHUE, S. and MARSHALL, D.J.	349
MEYER, V.W., <i>et al.</i>	207	OBI, C.L., <i>et al.</i>	589
MICHAELIS, M.M., <i>et al.</i>	163	Ocean circulation. Estimation of sea-surface temperature around southern Africa from satellite-derived microwave observations	489
Microbial flora. Microbial flora associated with South African household kefir	92	Ocean eddies. Studying the impact of ocean eddies on the ecosystem of the Prince Edward Islands: DEIMACII	187
Microwave data. Estimation of sea-surface temperature around southern Africa from satellite-derived microwave observations	489	Ocean-atmosphere interaction. A model investigation of inter-annual winter rainfall variability over southwestern South Africa and associated ocean-atmosphere interaction	75
Middle Miocene age. Giant dassie (Hyracidae, Mammalia) from the Middle Miocene of South Africa	366	ODENDAAL, T.M. Franz <i>see</i> FRANZ-ODENDAAL, T.M.	
Middle Stone Age (MSA). How some archaeologists recognize culturally modern behaviour	247		
Middle Stone Age (MSA). Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa	243		
Middle Stone Age (MSA). Perspectives on the geology of an open-air Middle Stone Age site, eastern Free State, South Africa	422		
MILLS, A.J. and FEY, M.V.	429		
MILTON, S.J.	404		
Mind-body functioning. Psychoneuroimmunology: from philosophy, intuition and folklore to a recognized science	332		

Open environments. Carbon isotope ratios of Sterkfontein fossils indicate a marked shift to open environments c. 1.7 Myr ago	271	Plio-Pleistocene sites. Site information in the early South African Stone Age sites and its influence on the archaeological record	251
Open-air river sites. Animal remains from Likoaeng, an open-air river site, and its place in the post-classic Wilton of Lesotho and eastern Free State, South Africa	143	PLUG, C.	59
Open-air Stone Age sites. Perspectives on the geology of an open-air Middle Stone Age site, eastern Free State, South Africa	422	PLUG, C. and ROSS, H.E.	309
<i>Ophiostoma piliferum</i> . The occurrence of <i>Ophiostoma piliferum</i> -like fungi on pulpwood chips and other wood sources in South Africa	34	PLUG, I., <i>et al.</i>	143
Ophiostomatoid fungi. The occurrence of <i>Ophiostoma piliferum</i> -like fungi on pulpwood chips and other wood sources in South Africa	34	PMS-2DG spectrometer. Using a spectrometer to assess simulated rainfall	311
OPPERMAN, B., <i>et al.</i>	51	<i>P<sub>n</sub></i> and <i>S<sub>n</sub></i> wavespeeds. Variations in crustal thickness and uppermost mantle structure across the Kaapvaal Craton from <i>P<sub>n</sub></i> and <i>S<sub>n</sub></i> arrivals and receiver functions	447
<i>Orachrysops niobe</i> (Trimen). The vegetation of the habitat of the Brenton blue butterfly, <i>Orachrysops niobe</i> (Trimen), in the Western Cape, South Africa	201	PNI (Psychoneuroimmunology). Psychoneuroimmunology: from philosophy, intuition and folklore to a recognized science	332
Oral fructose. Effect of oral fructose on ethanol elimination from the bloodstream	47	POKOMY, L., <i>et al.</i>	89
Organ donor transplantation. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81	Pollination systems in southern Africa. Specialized pollination systems in southern Africa	345
Organic artefacts. Additional evidence on the early hominid bone tools from Swartkrans with reference to spatial distribution of lithic and organic artefacts	259	Polygalacturonase-inhibiting proteins (PGIPs). PCR cloning by genome walking of a complete polygalacturonase-inhibiting protein gene from <i>Eucalyptus grandis</i>	410
Ornamental plants. A horticultural history of <i>Lachenalia</i> (Hyacinthaceae)	526	Polymerase chain reaction (PCR). PCR cloning by genome walking of a complete polygalacturonase-inhibiting protein gene from <i>Eucalyptus grandis</i>	410
OTERO, R. Cordero <i>see</i> CORDERO-OTERO, R.		Polymorphisms. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
<b>P</b>		Post-classic Wilton. Animal remains from Likoaeng, an open-air river site, and its place in the post-classic Wilton of Lesotho and eastern Free State, South Africa	143
PA toxicity. What levels of potentially toxic seed should be allowed in grains in South Africa. 1. Background and pyrrolizidine alkaloid-containing plants	337	POTGIETER, N., <i>et al.</i>	589
PAKHOMOV, E.A., <i>et al.</i>	187	POURIS, A.	195, 425, 513
Palaeoanthropological research, South Africa. Current issues in human origins research in South Africa	234	POWRIE, L.W., <i>et al.</i>	477
Palaeo-Anthropology Scientific Trust (PAST). A perspective on the PAST	235	PRAEKELT, H.E., <i>et al.</i>	160
Palaeoenvironmental reconstruction. Using carbon isotope data of fossil bovid communities for palaeoenvironmental reconstruction	273	PRETORIUS, I.S., <i>et al.</i>	499
Palaeolithic cave art. Chauvet: the cave that changed expectations	191	Prince Edward Islands. Prince Edward Island Millennium Expedition	407
PALMER, A.R., <i>et al.</i>	37	Prince Edward Islands. Studying the impact of ocean eddies on the ecosystem of the Prince Edward Islands: DEIMAC II	187
PALMER, T., <i>et al.</i>	100	PROCHES, <i>et al.</i>	474
PANZER, A., <i>et al.</i>	332	Provincial Heritage Resources Agencies (PHRAs). South African archaeology and palaeontology in legislative quagmire	237
<i>Paraphiohyrax ngoraensis</i> . Giant dassie (Hyracoidea, Mammalia) from the Middle Miocene of South Africa	366	Psychoneuroimmunology (PNI). Psychoneuroimmunology: from philosophy, intuition and folklore to a recognized science	332
PARKINGTON, J.	243	<i>Pterocelastrus tricuspidatus</i> . The vegetation of the habitat of the Brenton blue butterfly, <i>Orachrysops niobe</i> (Trimen), in the Western Cape, South Africa	201
Particulate Measurement System (PMS) 2DG spectrometer. Using a spectrometer to assess simulated rainfall	311	Public support for biotechnology. Assessing public support for biotechnology in South Africa	513
PARTRIDGE, T.C., <i>et al.</i>	215	Pulmonary protein drug delivery. Developments in drug delivery technologies: molecular and crystal design, cellular response and targeted and site-specific delivery	289
PAST (Palaeo-Anthropology Scientific Trust). A perspective on the PAST	235	Pulpwood chips. The occurrence of <i>Ophiostoma piliferum</i> -like fungi on pulpwood chips and other wood sources in South Africa	34
Pathogenic bacteria. Prevalence of pathogenic bacteria and rotaviruses in stools of patients presenting with diarrhoea from rural communities in Venda, South Africa	589	Pyrrolizidine alkaloids (PA). What levels of potentially toxic seed should be allowed in grains in South Africa. 1. Background and pyrrolizidine alkaloid-containing plants	337
Patterns of plant pollination. Specialized pollination systems in southern Africa	345	<b>Q</b>	
PAUL, D., <i>et al.</i>	187	Quasi-biennial Oscillation (QBO). Inter-annual variability of temperature in the upper troposphere and lower stratosphere at Durban	163
PAUW, J., <i>et al.</i>	100	Quaternary geomorphology. Quaternary slope development in the Lesotho highlands: review and alternative model	44
<i>Pavo cristatus</i> . A true peafowl in Africa	368	Qwa-Qwa (Free State, South Africa). True prevalence of pinworm ( <i>Enterobius vermicularis</i> ) infection among children in Qwa-Qwa, South Africa	465
Peafowl in Africa. A true peafowl in Africa	368	<b>R</b>	
PEARCE, D.G.	125	R&D tax incentives scheme. Towards a South African R&D tax incentives scheme: fiscal policies and social benefits	195
<i>Pediculus humanus capitis</i> . The prevalence of pediculosis in rural South African school-children	21	RAHMAN, M.Z., <i>et al.</i>	168
PEGRAM, G., <i>et al.</i>	394	Rainfall simulators. Using a spectrometer to assess simulated rainfall	311
PEPc (Phosphoenolpyruvate carboxylase). Bioengineering beans for phosphate-deficient soils in southern Africa	509	Rainfall variability. A model investigation of inter-annual winter rainfall variability over southwestern South Africa and associated ocean-atmosphere interaction	75
PETA, M.E., <i>et al.</i>	375	Rainfall-runoff. South African research in the hydrological sciences: 1999-2002	394
PETERSEN, S.L., <i>et al.</i>	407	RAMJEE, G., <i>et al.</i>	371
Phosphate-deficient soils. Bioengineering beans for phosphate-deficient soils in southern Africa	509	RAMP (Rapid Assessment of Marine Pollution). Marine pollution research in South Africa: a status report	349
Phosphoenolpyruvate carboxylase (PEPc). Bioengineering beans for phosphate-deficient soils in southern Africa	509	RAMSEY, M. and JENKINS, T.	9
Phospholipids. Phospholipids of marine origins: a review of research in southern Africa 1963-2003	521	Rapid Assessment of Marine Pollution (RAMP). Marine pollution research in South Africa: a status report	349
PHRAs (Provincial Heritage Resources Agencies). South African archaeology and palaeontology in legislative quagmire	237	Rapid mass movement on Marion Island. Observations on rapid mass movement and screes on sub-Antarctic Marion Island	177
PICKFORD, M.	366	Rare-earth compounds. Structure determination of the new rare-earth compound Ce <sub>2</sub> PdGe <sub>2</sub>	419
PILLAY, V.L., <i>et al.</i>	315	REASON, C.J.C., <i>et al.</i>	75
Pine plantations pests. Pine weevil <i>Pissodes nemorensis</i> : threat to South African pine plantations and options for control	531	Receptor simulation. Receptor simulation and the shape of the concentration-response curve and its congeners	302
Pine weevil control. Pine weevil <i>Pissodes nemorensis</i> : threat to South African pine plantations and options for control	531	REIMOLD, W.U.	307
Pink disease. Diseases of exotic <i>Eucalyptus</i> and <i>Pinus</i> species in Ethiopian plantations	29	REIMOLD, W.U., <i>et al.</i>	153
Pinworm. True prevalence of pinworm ( <i>Enterobius vermicularis</i> ) infection among children in Qwa-Qwa, South Africa	465	Relative Citation Index (RCI). South Africa's research publication record: the last ten years	425
<i>Pissodes nemorensis</i> . Pine weevil <i>Pissodes nemorensis</i> : threat to South African pine plantations and options for control	531	Replicas (casts) of hominid fossils. Heritage awareness, museums and hominid casts	240
Pitch canker fungus. Pine weevil <i>Pissodes nemorensis</i> : threat to South African pine plantations and options for control	531	Research publication output. South Africa's research publication record: the last ten years	425
Plant biomass. Converting plant biomass to fuels and commodity chemicals in South Africa: a third chapter?	499	Restoration ecology. Practical measures in arid land restoration after mining - a review for the southern Namib	413
Plant pollination systems. Specialized pollination systems in southern Africa	345	REYNOLDS, S.C., <i>et al.</i>	286
Plantation diseases, Argentina. Coniothyrium stem canker of <i>Eucalyptus</i> , new to Argentina and Vietnam	587	Rheumatoid arthritis (RA). Predisposing and protective HLA-DR and -DQ alleles for rheumatoid arthritis in South African mixed-ancestry and Xhosa populations	89
Plantation diseases, Ethiopia. Diseases of exotic <i>Eucalyptus</i> and <i>Pinus</i> species in Ethiopian plantations	29	RICE, A.	227
Plantation diseases, Vietnam. Coniothyrium stem canker of <i>Eucalyptus</i> , new to Argentina and Vietnam	587	Rietveld refinement method. Structure determination of the new rare-earth compound Ce <sub>2</sub> PdGe <sub>2</sub>	419
<i>Plectranthus esculentus</i> . Chemical composition of South African <i>Plectranthus esculentus</i> tubers	127	RIGGS, I., <i>et al.</i>	37
Pliocene frogs. Pliocene frogs from Langebaanweg, Western Cape Province, South Africa	123	RIJSEN, F.W. Jansen van <i>see</i> JANSEN VAN RIJSEN, F.W.	
Pliocene hominid (Stw 431). The third partial skeleton of a late Pliocene hominid (Stw 431) from Sterkfontein, South Africa	215	RINGROSE, S., <i>et al.</i>	100
Plio-Pleistocene sedimentary deposits. Preliminary results of excavations at the newly investigated Coopers D deposit, Gauteng, South Africa	276	River catchments. Catchment2Coast: making the link between coastal resource variability and river inputs	299
		ROBERTSON, M.P., <i>et al.</i>	37
		ROGERS ACKERMANN, R. <i>see</i> ACKERMANN, R. R.	



ROOS, J.L., <i>et al.</i> . . . . .	332	SMITH, A.M. and UKEN, R. . . . .	200
Root rot. Diseases of exotic <i>Eucalyptus</i> and <i>Pinus</i> species in Ethiopian plantations . . . . .	29	SMITH, G.F. and SIEBERT, S.J. . . . .	303
ROSS, H.E. and PLUG, C. . . . .	309	SMITH, M., <i>et al.</i> . . . .	389
Rotaviruses. Prevalence of pathogenic bacteria and rotaviruses in stools of patients presenting with diarrhoea from rural communities in Venda, South Africa . . . . .	589	SMITHERS, J., <i>et al.</i> . . . .	394
ROUAULT, M. and LUTJEHARMS, J.R.E. . . . .	489	Soil conservation. Declining soil quality in South Africa: effects of land use on soil organic matter and surface crusting . . . . .	429
ROUAULT, M., <i>et al.</i> . . . .	363	Soil crusting. Declining soil quality in South Africa: effects of land use on soil organic matter and surface crusting . . . . .	429
ROUSSEAU, J., <i>et al.</i> . . . .	81, 89	Soil nematodes. Sydney Brenner, Nobel laureate 2002: his early years at Wits . . . . .	11
ROUX, J., <i>et al.</i> . . . .	29, 587	Soil organic matter (SOM). Declining soil quality in South Africa: effects of land use on soil organic matter and surface crusting . . . . .	429
RUITER, D.J. de see DE RUITER, D.J. . . . .		Soil quality. Declining soil quality in South Africa: effects of land use on soil organic matter and surface crusting . . . . .	429
RUMBOLD, K., <i>et al.</i> . . . .	499	Solar radiation. Relationship between diffuse and global solar radiation in southern Africa . . . . .	360
Rural communities, Venda, South Africa. Prevalence of pathogenic bacteria and rotaviruses in stools of patients presenting with diarrhoea from rural communities in Venda, South Africa . . . . .	589	SOM (Soil organic matter). Declining soil quality in South Africa: effects of land use on soil organic matter and surface crusting . . . . .	429
Rural employment potential. Converting plant biomass to fuels and commodity chemicals in South Africa: a third chapter? . . . . .	499	South Africa. Dept. of Science and Technology. Launch of the European Union's Sixth Framework Programme for Research: opportunities for South Africa . . . . .	3
Rural South African schoolchildren. The prevalence of pediculosis in rural South African schoolchildren . . . . .	21	South African dual-frequency GPS receiver network. The South African network of dual-frequency global positioning system satellite receiver base stations: a national asset with many applications and research opportunities . . . . .	51
RYAN, P.G., <i>et al.</i> . . . .	407	South African forestry industry. The occurrence of <i>Ophiostoma piliferum</i> -like fungi on pulpwood chips and other wood sources in South Africa . . . . .	34
<b>S</b>		South African Heritage Resources Agency (SAHRA). South African archaeology and palaeontology in legislative quagmire . . . . .	237
SABONET (Southern African Botanical Diversity Network). SABONET's support, activities and achievements in South Africa . . . . .	303	South African LCIA procedure. A proposed lifecycle impact assessment framework for South Africa from available environmental data . . . . .	115
SAHRA (South African Heritage Resources Agency). South African archaeology and palaeontology in legislative quagmire . . . . .	237	South African museums. Managing collections of human remains in South African museums and universities: ethical policy-making and scientific value . . . . .	238
Sand transport. Sand transport along the Western Cape coast: gone with the wind? . . . . .	317	South African National Seismograph Network (SANSN). Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa . . . . .	389
Sanitizers. Susceptibility of food spoilage <i>Bacillus</i> species to chlorine dioxide and other sanitizers . . . . .	375	SANTOS, L., <i>et al.</i> . . . .	100
SANSN (South African National Seismograph Network). Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa . . . . .	389	SARCIA, S., <i>et al.</i> . . . .	163
SANTOS, L., <i>et al.</i> . . . .	100	Savanna Biome (Limpopo, South Africa). Age interpretation of the Wonderkrater spring sediments and vegetation change in the Savanna Biome, Limpopo Province, South Africa . . . . .	484
SARCIA, S., <i>et al.</i> . . . .	163	Savanna bio-resources. Consumption and direct-use values of savanna bio-resources used by rural households in Mametja, a semi-arid area of Limpopo Province, South Africa . . . . .	467
Savanna Biome (Limpopo, South Africa). Age interpretation of the Wonderkrater spring sediments and vegetation change in the Savanna Biome, Limpopo Province, South Africa . . . . .	484	SCHOOCH, A.E., <i>et al.</i> . . . .	160
Savanna bio-resources. Consumption and direct-use values of savanna bio-resources used by rural households in Mametja, a semi-arid area of Limpopo Province, South Africa . . . . .	467	SCHOEMAN, S.E., <i>et al.</i> . . . .	182
SCHOOCH, A.E., <i>et al.</i> . . . .	160	SCHOLTZ, N. and KENT, S. . . . .	422
SCHOEMAN, S.E., <i>et al.</i> . . . .	182	SCHOLTZ, N., <i>et al.</i> . . . .	160
SCHOLTZ, N. and KENT, S. . . . .	422	SCHULZE, R., <i>et al.</i> . . . .	394
SCHOLTZ, N., <i>et al.</i> . . . .	160	Science history. Historical reconstruction of guano production on the Namibian islands 1843-1895 . . . . .	13
SCHULZE, R., <i>et al.</i> . . . .	394	Science history. South African science in the year 1903-100n . . . . .	59
Science history. Historical reconstruction of guano production on the Namibian islands 1843-1895 . . . . .	13	Science policy. South Africa's research publication record: the last ten years . . . . .	425
Science history. South African science in the year 1903-100n . . . . .	59	SCOTT, L.W., <i>et al.</i> . . . .	484
Science policy. South Africa's research publication record: the last ten years . . . . .	425	SCOURFIELD, M.W.J., <i>et al.</i> . . . .	477
SCOTT, L.W., <i>et al.</i> . . . .	484	Scree on Marion Island. Observations on rapid mass movement and scree on sub-Antarctic Marion Island . . . . .	177
SCOURFIELD, M.W.J., <i>et al.</i> . . . .	477	Seabird breeding. Prince Edward Island Millennium Expedition . . . . .	407
Scree on Marion Island. Observations on rapid mass movement and scree on sub-Antarctic Marion Island . . . . .	177	SEALY, J. . . . .	238
Seabird breeding. Prince Edward Island Millennium Expedition . . . . .	407	Sea-surface temperature (SST). Estimation of sea-surface temperature around southern Africa from satellite-derived microwave observations . . . . .	489
SEALY, J. . . . .	238	Sea-surface temperature (SST). Sea-surface temperatures at the sub-Antarctic islands Marion and Gough during the past 50 years . . . . .	263
Sea-surface temperature (SST). Estimation of sea-surface temperature around southern Africa from satellite-derived microwave observations . . . . .	489	Seaworm. True prevalence of pinworm ( <i>Enterobius vermiculans</i> ) infection among children in Qwa-Qwa, South Africa . . . . .	465
Sea-surface temperature (SST). Sea-surface temperatures at the sub-Antarctic islands Marion and Gough during the past 50 years . . . . .	263	Secular variation data. Southern Africa's geomagnetic secular variation . . . . .	584
Seaworm. True prevalence of pinworm ( <i>Enterobius vermiculans</i> ) infection among children in Qwa-Qwa, South Africa . . . . .	465	Sedimentation patterns, southern Africa. Foraminifera defined biostratigraphic episodes and sedimentation pattern of the Cretaceous drift succession (Early Barremian to Late Maastrichtian) in seven basins on the South African and southern Namibian continental margin . . . . .	537
Secular variation data. Southern Africa's geomagnetic secular variation . . . . .	584	SEIOGHE, C., <i>et al.</i> . . . .	305
Sedimentation patterns, southern Africa. Foraminifera defined biostratigraphic episodes and sedimentation pattern of the Cretaceous drift succession (Early Barremian to Late Maastrichtian) in seven basins on the South African and southern Namibian continental margin . . . . .	537	Seismicity studies. Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa . . . . .	389
SEIOGHE, C., <i>et al.</i> . . . .	305	Semi-arid subtropical environment. Modelling cassava crop production under semi-arid subtropical conditions in South Africa . . . . .	321
Seismicity studies. Recent research in earth structure, earthquake and mine seismology, and seismic hazard evaluation in South Africa . . . . .	389	Sessile molluscs. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa . . . . .	243
Semi-arid subtropical environment. Modelling cassava crop production under semi-arid subtropical conditions in South Africa . . . . .	321	Sex workers (KwaZulu-Natal, South Africa). Vaginal douching and vaginal substance use among sex workers in KwaZulu-Natal, South Africa . . . . .	371
Sessile molluscs. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa . . . . .	243	Sexually transmitted infections (STIs). Vaginal douching and vaginal substance use among sex workers in KwaZulu-Natal, South Africa . . . . .	371
Sex workers (KwaZulu-Natal, South Africa). Vaginal douching and vaginal substance use among sex workers in KwaZulu-Natal, South Africa . . . . .	371	SHACKLETON, C.M. . . . .	23
Sexually transmitted infections (STIs). Vaginal douching and vaginal substance use among sex workers in KwaZulu-Natal, South Africa . . . . .	371	SHACKLETON, C.M., <i>et al.</i> . . . .	37
SHACKLETON, C.M. . . . .	23	Shell middens. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa . . . . .	243
SHACKLETON, C.M., <i>et al.</i> . . . .	37	Shellfish gathering. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa . . . . .	243
Shell middens. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa . . . . .	243	SIEBERT, S.J. and SMITH, G.F. . . . .	303
Shellfish gathering. Middens and moderns: shellfishing and the Middle Stone Age of the Western Cape, South Africa . . . . .	243	SIMON, R.E., <i>et al.</i> . . . .	577
SIEBERT, S.J. and SMITH, G.F. . . . .	303	Simulated rainfall. Using a spectrometer to assess simulated rainfall . . . . .	311
SIMON, R.E., <i>et al.</i> . . . .	577	SINGH, S., <i>et al.</i> . . . .	315
Simulated rainfall. Using a spectrometer to assess simulated rainfall . . . . .	311	SIPHUGU, V., <i>et al.</i> . . . .	467
SINGH, S., <i>et al.</i> . . . .	315	Site-specific drug delivery. Developments in drug delivery technologies: molecular and crystal design, cellular response and targeted and site-specific delivery . . . . .	289
SIPHUGU, V., <i>et al.</i> . . . .	467	SITOE, A., <i>et al.</i> . . . .	100
Site-specific drug delivery. Developments in drug delivery technologies: molecular and crystal design, cellular response and targeted and site-specific delivery . . . . .	289	SITTER, L. van see VAN SITTER, L. . . . .	
SITOE, A., <i>et al.</i> . . . .	100	SKA radio telescope project. South Africa bids for giant radio telescope . . . . .	233
SITTER, L. van see VAN SITTER, L. . . . .		SLIPPERS, B., <i>et al.</i> . . . .	70
SKA radio telescope project. South Africa bids for giant radio telescope . . . . .	233	Slope development on Marion Island. Observations on rapid mass movement and scree on sub-Antarctic Marion Island . . . . .	177
SLIPPERS, B., <i>et al.</i> . . . .	70		
Slope development on Marion Island. Observations on rapid mass movement and scree on sub-Antarctic Marion Island . . . . .	177		

Sub-Antarctic water masses. Intrusions of sub-Antarctic water across the Subtropical Convergence south of Africa	173	VAN JAARSVELD, A., <i>et al.</i>	100
Subtropical Convergence. Intrusions of sub-Antarctic water across the Subtropical Convergence south of Africa	173	VAN RIJSEN, F.W. Jansen <i>see</i> JANSEN VAN RIJSEN, F.W.	
Sunnyside 1. Perspectives on the geology of an open-air Middle Stone Age site, eastern Free State, South Africa	422	VAN SITTERT, L. and CRAWFORD, R.	13
Sustainable food crops. Bioengineering beans for phosphate-deficient soils in southern Africa	509	VAN STADEN, J. and GRACE, O.M.	526
Sustainable rural development. Consumption and direct-use values of savanna bio-resources used by rural households in Mametja, a semi-arid area of Limpopo Province, South Africa	467	VAN ZYL, W.H., <i>et al.</i>	499
SWART, P., <i>et al.</i>	315	Vegetation change. Age interpretation of the Wonderkrater spring sediments and vegetation change in the Savanna Biome, Limpopo Province, South Africa	484
Swartkrans bone tool collection. Additional evidence on the early hominid bone tools from Swartkrans with reference to spatial distribution of lithic and organic artefacts	259	Venda region (Limpopo, South Africa). Prevalence of pathogenic bacteria and rotaviruses in stools of patients presenting with diarrhoea from rural communities in Venda, South Africa	589
Sydney Brenner. Sydney Brenner, Nobel laureate 2002: his early years at Wits	11	Vertebrate pest control. Advances in vertebrate pest control: implications for the control of feral house mice on Marion Island	130
Symmetry groups. Complete symmetry groups, the Kepler Problem and generalizations	209	VICTOR, J., <i>et al.</i>	201
Synthetic xylan effluent. Degradation of synthetic xylan effluent using a membrane bioreactor	315	VICTOR, J.E. and DOLD, A.P.	437
<b>T</b>		Vietnamese plantations. Coniophthium stem canker of <i>Eucalyptus</i> , new to Argentina and Vietnam	587
TADROSS, M., <i>et al.</i>	75	VIKTOR, A., <i>et al.</i>	509
TAIT, B., <i>et al.</i>	499	VILJOEN, B.C., <i>et al.</i>	92
TALMA, A.S., <i>et al.</i>	484	VILJOEN, D.L., <i>et al.</i>	47
Tapioca. Modelling cassava crop production under semi-arid subtropical conditions in South Africa	321	VILJOEN, M., <i>et al.</i>	332
Targeted drug delivery. Developments in drug delivery technologies: molecular and crystal design, cellular response and targeted and site-specific delivery	289	VILLIERS, M.M. de <i>see</i> DE VILLIERS, M.M.	
TARRAS-WAHLBERG, H., <i>et al.</i>	494	VISSER, C., <i>et al.</i>	187
TARRAS-WAHLBERG, N., <i>et al.</i>	494	Vitrified dung. The occurrence of vitrified dung from the Kamdeboo district, southern Karoo, and Den Staat, Limpopo Valley, South Africa	26
Tax incentives for research and development. Towards a South African R&D tax incentives scheme: fiscal policies and social benefits	195	VOGEL, J.C., <i>et al.</i>	286, 484
Termites. Estimates of food consumption by the fungus-growing termite <i>Macrotermes natalensis</i> in a South African savanna-woodland	207	Volcanic rocks research. Review of South African research on volcanic and related rocks and mantle-derived materials: 1999–2002	381
Terrigenous sand. Sand transport along the Western Cape coast: gone with the wind?	317	VON BLOTTNITZ, H., <i>et al.</i>	499
THACKERAY, J.F.	241	VON HOLY, A., <i>et al.</i>	375
Theodolites. Gladysvale: fossils, strata and GIS analysis	283	VUMAZONKE, L.U., <i>et al.</i>	187
THORP, J.A. Lee <i>see</i> LEE-THORP, J.A.		<b>W</b>	
Threatened plants. Threatened plants of the Albany Centre of Floristic Endemism, South Africa	437	WADLEY, L.	247
Three-toed horses, southern Africa. Systematics and dietary evaluation of a fossil equid from South Africa	453	WAHLBERG, H. TARRAS <i>see</i> TARRAS-WAHLBERG, H.	
THU, P.Q., <i>et al.</i>	587	WAHLBERG, N. TARRAS <i>see</i> TARRAS-WAHLBERG, N.	
Thuatite meteorite. The Thuatite meteorite fall of 21 July 2002	160	WALKER, S. and TSUBO, M.	360
Thuatite meteorite. The Thuatite meteorite of 21 July 2002, Lesotho: mapping the strewn field and initial mineralogical classification	153	Water masses. Intrusions of sub-Antarctic water across the Subtropical Convergence south of Africa	173
Tierkloof (Eastern Cape, South Africa). The Tierkloof painted burial stones	125	Wave speed models. The structure of the upper mantle and transition zone beneath southern Africa from broad-band body waves	577
TOBIAS, P.V.	11, 215	Wave speeds. Variations in crustal thickness and uppermost mantle structure across the Kaapvaal Craton from Pn and Sn arrivals and receiver functions	447
TOUSSAINT, M., <i>et al.</i>	215	Weed ranking. A proposed prioritization system for the management of invasive alien plants in South Africa	37
Toxic pyrrolizidine alkaloids. What levels of potentially toxic seed should be allowed in grains in South Africa. 1. Background and pyrrolizidine alkaloid-containing plants	337	Western Cape coast (South Africa). Sand transport along the Western Cape coast: gone with the wind?	317
Toxic seeds in agricultural grains. What levels of potentially toxic seed should be allowed in grains in South Africa. 1. Background and pyrrolizidine alkaloid-containing plants	337	WESTHUIZEN, W.A. van der <i>see</i> VAN DER WESTHUIZEN, W.A.	
Transboundary water resource systems. South African research in the hydrological sciences: 1999–2002	394	WIGLEY, R.A., <i>et al.</i>	317
Tropospheric aerosol profiles. First measurements of tropospheric aerosol profiles above Durban using a LIDAR	168	WILKINSON, D., <i>et al.</i>	371
TSUBO, M. and WALKER, S.	360	WILKINSON, W., <i>et al.</i>	407
TWINE, W., <i>et al.</i>	467	WILLIAMS, B., <i>et al.</i>	305
<b>U</b>		WILLIAMS, J.D. Lewis <i>see</i> LEWIS-WILLIAMS, J.D.	
UKENI, R. and SMITH, A.M.	200	WILLIAMS, R.C., <i>et al.</i>	81
Ultraviolet-B radiation. Geographical and temporal trends in southern African clear-sky, solar ultraviolet-B flux: 1979 to 2001	477	WILSON, A.H., <i>et al.</i>	160
UNDERHILL, L.G., <i>et al.</i>	407	WINGFIELD, B.D., <i>et al.</i>	34, 70, 410
UNGAR, P., <i>et al.</i>	283	WINGFIELD, M.J. and GEBEYEHU, S.	531
University of the Witwatersrand (Wits). Sydney Brenner, Nobel laureate 2002: his early years at Wits	11	WINGFIELD, M.J., <i>et al.</i>	29, 34, 70, 410, 587
Upper mantle and transition zone beneath southern Africa. The structure of the upper mantle and transition zone beneath southern Africa from broad-band body waves	577	WITTEN, G. and CRIDLAND, J.S.	302
Upper Palaeolithic art. Chauvet: the cave that changed expectations	191	WITTEN, G., <i>et al.</i>	305
Urbach-Wiethe disease. The genetic defect identified and a founder effect confirmed in Namaqualand families with lipid proteinosis	9	Wonderkrater spring sediments. Age interpretation of the Wonderkrater spring sediments and vegetation change in the Savanna Biome, Limpopo Province, South Africa	484
UV-indices. Geographical and temporal trends in southern African clear-sky, solar ultraviolet-B flux: 1979 to 2001	477	WONNACOTT, R.T., <i>et al.</i>	51, 398
<b>V</b>		WOODBORNE, S., <i>et al.</i>	484
Vaginal douching. Vaginal douching and vaginal substance use among sex workers in KwaZulu-Natal, South Africa	371	Woodwasps. A review of the genus <i>Amylostereum</i> and its association with woodwasps	70
VALENTINE, A., <i>et al.</i>	509	World Conservation Union (IUCN). Threatened plants of the Albany Centre of Floristic Endemism, South Africa	437
VAN AARDE, R.J. and JACKSON, T.P.	130	WRIGHT, C., <i>et al.</i>	389, 447, 577
VAN BEERS, D. and GRAEDEL, T.E.	61	<b>X</b>	
VAN DER MERWE, G., <i>et al.</i>	224	Xhosa populations. HLA DRB1, DQA1, DQB1 and DPB1 polymorphisms in Namibian Khoi and San and in the Xhosa and South African mixed-ancestry populations	81
VAN DER MERWE, N.J.	237	Xhosa populations. Predisposing and protective HLA-DR and -DQ alleles for rheumatoid arthritis in South African mixed-ancestry and Xhosa populations	89
VAN DER WESTHUIZEN, W.A., <i>et al.</i>	26	XRD (High-resolution X-ray diffraction). Structure determination of the new rare-earth compound Ce <sub>2</sub> PdGe <sub>3</sub>	419
VAN DIJK, D.E.	123	Xylan effluent. Degradation of synthetic xylan effluent using a membrane bioreactor	315
		<b>Y</b>	
		Yeast species. Microbial flora associated with South African household kefir	92
		<b>Z</b>	
		ZIMMERMANN, H.G., <i>et al.</i>	37
		ZYL, W.H. van <i>see</i> VAN ZYL, W.H.	



